Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	91540	(number or frequency or count or times or amount) with (URL or website or web or webpage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:15
L2	20748	1 with (acces$4 or retriev$4 or downloa$4 or call or called or select$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:16
L3	866	2 same (threshold or maximum or default)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:16
L4	610	2 same (threshold or maximum)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 14:44
L5	211	2 same (threshold or maximum or default) with (exceed or exceeding or greater or higher or bigger or more)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:17
L6	25	5 same (indicator or mark or status)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:13
L7	144	715/804-805.ccls. and (URL or website or web or webpage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:03
L8	89	715/804-805.ccls. and (URL or website or web or webpage) same(number or frequency or count or times or amount)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 14:52
L9	2	715/804-805.ccls. and (URL or website or web or webpage) same (number or frequency or count or times or amount) with (threshold or maximum or default)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 14:55

L10	688	715/804-805.ccls. 715/748-749. ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 14:54
L11	2	715/804-805.ccls. and 715/748-749.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 14:54
L12	8	715/804-805.ccls. and (URL or website or web or webpage) same (number or frequency or count or times or amount) same (threshold or maximum or default)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 14:56
L13	6	12 not 9 not 6 not 11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:00
L14	38099	(importan$4 or significa$4) with (mark or marker or status or indicator or cue)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:14
L15	424	14 same (URL or website or web or webpage)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:03
L16	162	15 same (number or frequency or count or times or amount)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:04
L17	50	16 same (acces$4 or retriev$4 or downloa$4 or call or called or select$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:04
L18	46	17 not 6 not 12	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:05
L19	46	18 not 13	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:05

L20	0	5 same (marker or cue)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:13
L21	8	(importan$4 or significa$4) with (mark or marker or status or indicator or cue) with favorite	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:17
L22	62808	(number or frequency or count or times or amount) with (favorite or internet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:15
L23	21471	22 with (acces$4 or retriev$4 or downloa$4 or call or called or select$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:16
L24	615	23 same (threshold or maximum or default)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:16
L25	104	24 same (threshold or maximum or default) with (exceed or exceeding or greater or higher or bigger or more)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:17
L26	6	25 same (mark or marker or status or indicator or cue)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 15:18

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	(number or frequency or count or times or amount) with (URL or website or web or webpage) with (acces$4 or retriev$4 or downloa$4 or call or called or selec$5) same (limit with (exceed or exceeding or greater or higher or bigger or more)) same (indicator or mark or marker or status or cue)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 16:30
L2	1	715/804-805.ccls. and (number or frequency or count or times or amount) same(URL or website or web or webpage) with (acces$4 or retriev$4 or downloa$4 or call or called or selec$5) same (limit)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 16:31

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	204	(different or other or another or second or changed or change or changing or alter or altered or altering) with (appearance or visual or emphasis or look or appear or appearing) with (URL or (web near4 address))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:21
L2	12	1 same (indicator or indicia or mark or marker or cue)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:17
L3	6	1 same status	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:15
L4	6	3 not 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:15
L5	0	1 same emphasis	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:16
L6	559	(different or other or another or second or changed or change or changing or alter or altered or altering) with (appearance or visual or emphasis or look or appear or appearing) same (URL or (web near4 address))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:17
L7	64	6 same (indicator or indicia or mark or marker or cue or status)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:18
L8	64	7 and (acces$4 or retriev$4 or downloa$4 or call or called or selec$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:18
L9	42	7 same (acces$4 or retriev$4 or downloa$4 or call or called or selec$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:20

L10	51	715/821-824.ccls. and (URL or web)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:22
L11	51	10 not 9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:21
L12	51	10 and (different or other or another or second or changed or change or changing or alter or altered or altering)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:22
L14	21	715/821-824.ccls. and (URL or web) same (different or other or another or second or changed or change or changing or alter or altered or altering)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/30 17:22

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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on proc diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. Howeve diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 An exact solution for finding minimum recombinant haplotype configurations on pedigrees w missing data by integer linear programming

Jing Li, Tao Jiang

March 2004 **Proceedings of the eighth annual international conference on Resaerch in computational molecular biology RECOMB '04**

Full text available: pdf(279.69 KB) Additional Information: full citation, abstract, references, index terms

We study the problem of reconstructing haplotype configurations from genotypes on pedigree dat missing alleles under the Mendelian law of inheritance and the minimum recombination principle, important for the construction of haplotype maps and genetic linkage/association analysis. Our pr results show that the problem of finding a *minimum-recombinant haplotype configuration (MRHC)* general NP-hard. The existing algorithms for MRHC either are heuristic in nature an ...

Keywords: branch-and-bound algorithm, haplotyping, integer linear programming, missing data imputation, pedigree analysis, recombination

3 Experiments in social data mining: The TopicShop system

Brian Amento, Loren Terveen, Will Hill, Deborah Hix, Robert Schulman

March 2003 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 10 Issue 1

Full text available: pdf(377.92 KB) Additional Information: full citation, abstract, references, citings, index terms

Social data mining systems enable people to share opinions and benefit from each other's experie They do this by mining and redistributing information from computational records of social activity as Usenet messages, system usage history, citations, or hyperlinks. Some general questions for evaluating such systems are: (1) is the extracted information valuable? and (2) do interfaces bas

the information improve user task performance? We report here on *TopicShop*, a syst ...

Keywords: Cocitation analysis, collaborative filtering, computer-supported cooperative work, infc visualization, social filtering, social network analysis

4 The rhetorical parsing of unrestricted texts: a surface-based approach
Daniel Marcu
September 2000 **Computational Linguistics**, Volume 26 Issue 3

Full text available: pdf(3.87 MB) Publisher Site Additional Information: full citation, abstract, references

Coherent texts are not just simple sequences of clauses and sentences, but rather complex artifa have highly elaborate rhetorical structure. This paper explores the extent to which well-formed rh structures can be automatically derived by means of surface-form-based algorithms. These algori identify discourse usages of cue phrases and break sentences into clauses, hypothesize rhetorical relations that hold among textual units, and produce valid rhetorical structure trees for ...

5 VizSEC innovative visualizations session: Combining a bayesian classifier with visualisation: understanding the IDS
Stefan Axelsson
October 2004 **Proceedings of the 2004 ACM workshop on Visualization and data mining for computer security**

Full text available: pdf(332.05 KB) Additional Information: full citation, abstract, references, index terms

Despite several years of intensive study, intrusion detection systems still suffer from two key defi Low detection rates and a high rate of false alarms.

To counteract these drawbacks an interactive detection system based on simple Bayesian statistic combined with a visualisation component is proposed, in the hope that this lets the operator bette understand how exactly the intrusion detection system is operating. The resulting system is appli the log of a webserver.

Keywords: intrusion detection, naive bayesian classification

6 Special issue: Game-playing programs: theory and practice
M. A. Bramer
April 1972 **ACM SIGART Bulletin**, Issue 80

Full text available: pdf(9.23 MB) Additional Information: full citation, abstract

This collection of articles has been brought together to provide SIGART members with an overvie Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory a practice are included.

7 Bioinformatics—an introduction for computer scientists
Jacques Cohen
June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2

Full text available: pdf(261.56 KB) Additional Information: full citation, abstract, references, index terms

The article aims to introduce computer scientists to the new field of bioinformatics. This area has from the needs of biologists to utilize and help interpret the vast amounts of data that are consta being gathered in genomic research---and its more recent counterparts, proteomics and functiona genomics. The ultimate goal of bioinformatics is to develop in silico models that will complement i

and in vivo biological experiments. The article provides a bird's eye view of the ...

Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation ar modeling, computer, dynamic programming, hidden-Markov-models, microarray, parsing biologic sequences, phylogenetic trees

8 TextTiling: segmenting text into multi-paragraph subtopic passages
Marti A. Hearst
March 1997 **Computational Linguistics**, Volume 23 Issue 1

Full text available: pdf(2.46 MB) Publisher Site Additional Information: full citation, abstract, references, citings

TextTiling is a technique for subdividing texts into multi-paragraph units that represent passages, subtopics. The discourse cues for identifying major subtopic shifts are patterns of lexical co-occur and distribution. The algorithm is fully implemented and is shown to produce segmentation that corresponds well to human judgments of the subtopic boundaries of 12 texts. Multi-paragraph sul segmentation should be useful for many text analysis tasks, including information retrieval and ..

9 The battle against phishing: Dynamic Security Skins
Rachna Dhamija, J. D. Tygar
July 2005 **Proceedings of the 2005 symposium on Usable privacy and security SOUPS '05**

Full text available: pdf(398.10 KB) Additional Information: full citation, abstract, references

Phishing is a model problem for illustrating usability concerns of privacy and security because bot system designers and attackers battle using user interfaces to guide (or misguide) users.We prop new scheme, Dynamic Security Skins, that allows a remote web server to prove its identity in a w is easy for a human user to verify and hard for an attacker to spoof. We describe the design of an extension to the Mozilla Firefox browser that implements this scheme.We present two novel inte .

10 Measuring and characterizing end-to-end Internet service performance
Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat
November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, index terms

Fundamental to the design of reliable, high-performance network services is an understanding of performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service characteristics from strategic locations in the netw instrumenting Web pages with code that reports client-perceived latency back to a performance s Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

11 Unsupervised learning of the morphology of a natural language
John Goldsmith
June 2001 **Computational Linguistics**, Volume 27 Issue 2

Full text available: pdf(3.19 MB) Publisher Site Additional Information: full citation, abstract, references, citings

This study reports the results of using minimum description length (MDL) analysis to model unsu learning of the morphological segmentation of European languages, using corpora ranging in size 5,000 words to 500,000 words. We develop a set of heuristics that rapidly develop a probabilistic

morphological grammar, and use MDL as our primary tool to determine whether the modifications proposed by the heuristics will be adopted or not. The resulting grammar matches well the analys that ...

12 Using multiple knowledge sources for word sense discrimination
Susan W. McRoy
March 1992 **Computational Linguistics**, Volume 18 Issue 1

Full text available: pdf(2.02 MB) Publisher Site Additional Information: full citation, abstract, references, citings

This paper addresses the problem of how to identify the intended meaning of individual words in unrestricted texts, without necessarily having access to complete representations of sentences. T discriminate senses, an understander can consider a diversity of information, including syntactic t word frequencies, collocations, semantic context, role-related expectations, and syntactic restricti However, current approaches make use of only small subsets of this information. Here we will des

13 A survey of Web metrics
Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick
December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Full text available: pdf(289.28 KB) Additional Information: full citation, abstract, references, citings, index terms

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry o research activity to improve its capacity for serving information more effectively. But at the heart efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. Tl observation points towards measurements and models that quantify various attributes of web site science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, qual metrics

14 Applications: Web-assisted annotation, semantic indexing and search of television and radio
Mike Dowman, Valentin Tablan, Hamish Cunningham, Borislav Popov
May 2005 **Proceedings of the 14th international conference on World Wide Web**

Full text available: pdf(403.97 KB) Additional Information: full citation, abstract, references, index terms

The Rich News system, that can automatically annotate radio and television news with the aid of resources retrieved from the World Wide Web, is described. Automatic speech recognition gives a temporally precise but conceptually inaccurate annotation model. Information extraction from rel news sites gives the opposite: conceptual accuracy but no temporal data. Our approach combines for temporally accurate conceptual semantic annotation of broadcast news. First low quality trans

Keywords: Web search, automatic speech recognition, key-phrase extraction, media archiving, multimedia, natural language processing, semantic Web, semantic annotation, topical segmentati

15 Towards robust features for classifying audio in the CueVideo system
Savitha Srinivasan, Dragutin Petkovic, Dulce Ponceleon
October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part**

Full text available: pdf(867.70 KB) Additional Information: full citation, abstract, references, citings, index terms

The role of audio in the context of multimedia applications involving video is becoming increasingl important. Many efforts in this area focus on audio data that contains some built-in semantic infor structure such as in broadcast news, or focus on classification of audio that contains a single type sound such as cleaar speech or clear music only. In the CueVideo system, we detect and classify that consists of mixed audio, i.e. combinations of speech and mus ...

Keywords: audio segmentation and classification, speech/music discrimination

16 Now let's talk about *now*: identifying cue phrases intonationally
Julia Hirschberg, Diane Litman
July 1987 **Proceedings of the 25th annual meeting on Association for Computational Lingu**

Full text available: pdf(803.50 KB) Publisher Site Additional Information: full citation, abstract, references, citings

Cue phrases are words and phrases such as *now* and *by the way* which may be used to convey e> information about the structure of a discourse. However, while cue phrases *may* convey discourse structure, each may also be used to different effect. The question of how speakers and hearers distinguish between such uses of cue phrases has not been addressed in discourse studies to date on a study of *now* in natural recorded discourse, we propose that cue and non-cu ...

17 A methodology for analyzing SAGE libraries for cancer profiling
Jörg Sander, Raymond T. Ng, Monica C. Sleumer, Man Saint Yuen, Steven J. Jones
January 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 1

Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references, index terms

Serial Analysis of Gene Expression (SAGE) has proven to be an important alternative to microarra techniques for global profiling of mRNA populations. We have developed preprocessing methodolo address problems in analyzing SAGE data due to noise caused by sequencing error, normalization methodologies to account for libraries sampled at different depths, and missing tag imputation methodologies to aid in the analysis of poorly sampled SAGE libraries. We have also used subspac selection us ...

Keywords: Gene expression, cancer profiling, classification, clustering

18 SpeechSkimmer: a system for interactively skimming recorded speech
Barry Arons
March 1997 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 4 Issue 1

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index terms

Listening to a speech recording is much more difficult than visually scanning a document because transient and temporal nature of audio. Audio recordings capture the richness of speech, yet it is to directly browse the stored information. This article describes techniques for structuring, filterin presenting recorded speech, allowing a user to navigate and interactively find information in the a domain. This article describes the SpeechSkimmer system for interacti ...

Keywords: audio browsing, interactive listening, nonspeech audio, speech as data, speech skimr speech user interfaces, time compression

19 Session 8: Characterizing customer groups for an e-commerce website
Qing Wang, Dwight J. Makaroff, H. Keith Edwards
May 2004 **Proceedings of the 5th ACM conference on Electronic commerce**

Full text available: pdf(722.13 KB) Additional Information: full citation, abstract, references, index terms

In conventional commerce, customer groups with similar interests or behaviours can be observed Similarly, customers in E-commerce naturally form groups. These groups allow the organization t provide quality of service (QoS) and perform capacity planning. From a system point of view, ove server performance can be improved and resources managed considering customer session behaviour.Previous studies have grouped customers using clustering techniques. Different data m

have been selected ...

Keywords: electronic commerce, session behaviour, workload characterization

20 Identification control: Public key distribution through "cryptoIDs"
Trevor Perrin
August 2003 **Proceedings of the 2003 workshop on New security paradigms**

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we argue that person-to-person key distribution is best accomplished with a key-ce approach, instead of PKI: users should distribute public key fingerprints in the same way they dis phone numbers, postal addresses, and the like. To make this work, fingerprints need to be *small*, users can handle them easily; *multipurpose*, so only a single fingerprint is needed for each user; *long-lived*, so fingerprints don't have to be frequently redistribute ...

Keywords: cryptoIDs, fingerprints, key distribution, key management, public key infrastructure

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1 Analysis of navigation behaviour in web sites integrating multiple information systems

Bettina Berendt, Myra Spiliopoulou

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Full text available: pdf(281.14 KB) Additional Information: full citation, abstract, citings, index terms

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

2 Special issue on learning from imbalanced datasets: A multistrategy approach for digital text categorization from imbalanced documents

M. Dolores del Castillo, José Ignacio Serrano

June 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 1

Full text available: pdf(338.63 KB) Additional Information: full citation, abstract, references, citings

The goal of the research described here is to develop a multistrategy classifier system that can be used for document categorization. The system automatically discovers classification patterns by applying several empirical learning methods to different representations for preclassified documents belonging to an imbalanced sample. The learners work in a parallel manner, where each learner carries out its own feature selection based on evolutionary techniques and then obtains a classification mode ...

Keywords: feature selection, genetic algorithms, multistrategy learning

3 A survey of Web metrics

Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick

December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Full text available: pdf(289.28 KB) Additional Information: full citation, abstract, references, citings, index terms

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

4 Searching the Web

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Full text available: pdf(319.98 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine

5 Towards robust features for classifying audio in the CueVideo system

Savitha Srinivasan, Dragutin Petkovic, Dulce Ponceleon

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

Full text available: pdf(867.70 KB) Additional Information: full citation, abstract, references, citings, index terms

The role of audio in the context of multimedia applications involving video is becoming increasingly important. Many efforts in this area focus on audio data that contains some built-in semantic information structure such as in broadcast news, or focus on classification of audio that contains a single type of sound such as cleaar speech or clear music only. In the CueVideo system, we detect and classify audio that consists of mixed audio, i.e. combinations of speech and mus ...

Keywords: audio segmentation and classification, speech/music discrimination

6 Computer security: Service specific anomaly detection for network intrusion detection

Christopher Krügel, Thomas Toth, Engin Kirda

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available: pdf(719.17 KB) Additional Information: full citation, abstract, references, citings, index terms

The constant increase of attacks against networks and their resources (as recently shown by the CodeRed worm) causes a necessity to protect these valuable assets. Firewalls are now a common installation to repel intrusion attempts in the first place. Intrusion detection systems (IDS), which try to detect malicious activities instead of preventing them, offer additional protection when the first defense perimeter has been penetrated. ID systems attempt to pin down attacks by comparing collected d ...

Keywords: anomaly eetection, intrusion eetection, network security

7 Industry track papers: Learning domain-independent string transformation weights for high accuracy object identification

Sheila Tejada, Craig A. Knoblock, Steven Minton

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings, index terms

The task of object identification occurs when integrating information from multiple websites. The same data objects can exist in inconsistent text formats across sites, making it difficult to identify matching objects using exact text match. Previous methods of object identification have required manual construction of domain-specific string transformations or manual setting of general transformation parameter weights for recognizing format inconsistencies. This manual process can be time consum ...

8 Eye movement analysis & visual search: 3D eye movement analysis for VR visual inspection training

Andrew T. Duchowski, Eric Medlin, Nathan Cournia, Anand Gramopadhye, Brian Melloy, Santosh Nair

March 2002 **Proceedings of the symposium on Eye tracking research & applications**

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references

This paper presents an improved 3D eye movement analysis algorithm for binocular eye tracking within Virtual Reality for visual inspection training. The user's gaze direction, head position and orientation are tracked to allow recording of the user's fixations within the environment. The paper summarizes methods for (1) integrating the eye tracker into a Virtual Reality framework, (2) calculating the user's 3D gaze vector, and (3) calibrating the software to estimate the user's inter-pupillary d ...

9 Data security and protection: Winnowing: local algorithms for document fingerprinting

Saul Schleimer, Daniel S. Wilkerson, Alex Aiken

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available: pdf(180.16 KB) Additional Information: full citation, abstract, references, index terms

Digital content is for copying: quotation, revision, plagiarism, and file sharing all create copies. Document fingerprinting is concerned with accurately identifying copying, including small partial copies, within large sets of documents.We introduce the class of *local* document fingerprinting algorithms, which seems to capture an essential property of any finger-printing technique guaranteed to detect copies. We prove a novel lower bound on the performance of any local algorithm. We also ...

10 Internet Web servers: workload characterization and performance implications

Martin F. Arlitt, Carey L. Williamson

October 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 5

Full text available: pdf(216.86 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: World-Wide Web, caching, performance evaluation, workload characterization

11 Dynamic-CBT and ChIPS—router support for improved multimedia performance on the

Internet
Jae Chung, Mark Claypool
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, index terms

The explosive increase in the volume and variety of Internet traffic has placed a growing emphasis on congestion control and fairness in Internet routers. Approaches to the problem of congestion, such as active queue management schemes like Random Early Detection (RED) use congestion avoidance techniques and are successful with TCP flows. Approaches to the problem of fairness, such as Fair Random Early Drop (FRED), keep per-flow state and punish misbehaved, non-TCP flows. Unfortunately, these ...

Keywords: congestion, fairness, jitter, multimedia, queue management, router

12 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

13 Power estimation and design tradeoffs: Low power network processor design using clock gating
Yan Luo, Jia Yu, Jun Yang, Laxmi Bhuyan
June 2005 **Proceedings of the 42nd annual conference on Design automation**

Full text available: pdf(591.62 KB) Additional Information: full citation, abstract, references, index terms

Network processors (NPs) have emerged as successful platforms to providing both high performance and flexibility in building powerful routers. Typical NPs incorporate multiprocessing and multi-threading to achieve maximum parallel processing capabilities. We observed that under low incoming traffic rates, most processing elements (PEs) in NPs are nearly idle and yet still consume dynamic power. This paper develops a low power technique to reduce the activities of PEs according to the varying tra ...

Keywords: low power, network processors

14 QProber: A system for automatic classification of hidden-Web databases
Luis Gravano, Panagiotis G. Ipeirotis, Mehran Sahami
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available: pdf(3.62 MB) Additional Information: full citation, abstract, references, citings, index terms

The contents of many valuable Web-accessible databases are only available through search interfaces and are hence invisible to traditional Web "crawlers." Recently, commercial Web sites have started to manually organize Web-accessible databases into Yahoo!-like hierarchical classification schemes. Here we introduce QProber, a modular system that automates this classification process by using a small number of query probes, generated by document classifiers. QProber can use a variety of types of ...

Keywords: Database classification, Web databases, hidden Web

15 Probe, count, and classify: categorizing hidden web databases
Panagiotis G. Ipeirotis, Luis Gravano, Mehran Sahami
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available: pdf(389.34 KB) Additional Information: full citation, abstract, references, citings, index terms

The contents of many valuable web-accessible databases are only accessible through search interfaces and are hence invisible to traditional web "crawlers." Recent studies have estimated the size of this "hidden web" to be 500 billion pages, while the size of the "crawlable" web is only an estimated two billion pages. Recently, commercial web sites have started to manually organize web-accessible databases into Yahoo!-like hierarchical classification schemes ...

16 DB-1 (databases): data integration: Organizing structured web sources by query schemas: a clustering approach
Bin He, Tao Tao, Kevin Chen-Chuan Chang
November 2004 **Proceedings of the thirteenth ACM conference on Information and knowledge management**

Full text available: pdf(323.72 KB) Additional Information: full citation, abstract, references, index terms

In the recent years, the Web has been rapidly "deepened" with the prevalence of databases online. On this deep Web, many sources are structured by providing structured query interfaces and results. Organizing such structured sources into a domain hierarchy is one of the critical steps toward the integration of heterogeneous Web sources. We observe that, for structured Web sources, query schemas ie, attributes in query interfaces) are discriminative representative ...

Keywords: data integration, deep Web, hierarchical agglomerative clustering

17 Admission-control policies for multihop wireless networks
Craig M. Barnhart, Jeffrey E. Wieselthier, Anthony Ephremidis
December 1995 **Wireless Networks**, Volume 1 Issue 4

Full text available: pdf(1.40 MB) Additional Information: full citation, abstract, references, citings

In this paper, we investigate the admission-control problem for voice traffic in fixed-route circuit-switched wireless networks. We consider coordinate-convex admission-control policies and a "blocked-calls-cleared" mode of operation, in conjunction with the usual assumptions on the voice process statistics. These conditions result in a product-form stationary distribution for the voice state of the system, which facilitates the evaluation of network performance. However, to det ...

18 TCP westwood: Bandwidth estimation for enhanced transport over wireless links
Saverio Mascolo, Claudio Casetti, Mario Gerla, M. Y. Sanadidi, Ren Wang
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Full text available: pdf(344.76 KB) Additional Information: full citation, abstract, references, citings, index terms

TCP Westwood (TCPW) is a sender-side modification of the TCP congestion window algorithm that improves upon the performance of TCP Reno in wired as well as wireless networks. The improvement is most significant in wireless networks with lossy links, since

TCP Westwood relies on end-to-end bandwidth estimation to discriminate the cause of packet loss (congestion or wireless channel effect) which is a major problem in TCP Reno. An important distinguishing feature of TCP Westwood with respect to ...

19 A system for automatic personalized tracking of scientific literature on the Web
Kurt D. Bollacker, Steve Lawrence, C. Lee Giles
August 1999 **Proceedings of the fourth ACM conference on Digital libraries**
Full text available: pdf(123.52 KB) Additional Information: full citation, references, citings, index terms

Keywords: citation index, information filtering, knowledge representation, user profile

20 Improved algorithms for topic distillation in a hyperlinked environment
Krishna Bharat, Monika R. Henzinger
August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**
Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms

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4096 and **status** & 32768 !=32768 and name = @dbname end set **@count** =1 set ...
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L3	9	((number or frequency or count or times or amount) with (URL or website or webpage or web or (internet with (page or site))) same (mark or marker or cue or indicator or status) same (threshold or maximum or default)).clm.	US-PGPUB	OR	ON	2005/08/30 15:35